

- transmitting a digital signal from the transmitting end to the receiving end,
- receiving said digital signal at the receiving end,
- monitoring signal quality at the receiving end, and
- adjusting the transmission power at the transmission end in accordance with the monitored signal quality, said monitoring and adjusting having the further steps of
  - monitoring pseudo error occurrence at the receiving end,
  - decreasing the transmission power when the rate of the pseudo errors is below a predetermined threshold, and
  - increasing the transmission power when pseudo errors occur so that a

2. (AMENDED) A method as claimed in claim 1, wherein the transmission power is increased immediately when a pseudo error is detected.

3. (AMENDED) A method as claimed in claim 1, wherein the transmission power is decreased in small steps for a predetermined time period at each step.

4. (AMENDED) A method as claimed in claim 3, wherein

(a) adjusting the transmission power after the set up of

high enough so that no pseudo errors are detected at the receiving end,

(b) decreasing the transmission power until the first pseudo error is detected,

(c) increasing the transmission power in response to the pseudo error detected,  
and

and

time period after the transmission power has been increased in phase (c).

5. (AMENDED) A method as claimed in claim 1, wherein the transmission power is increased by a small predetermined amount when said pseudo errors are detected.
6. (AMENDED) A method as claimed in claim 1, wherein
- using forward error correction (FEC) in the transmitted signal,
  - decoding the signal at the receiving end by means of a FEC decoder, and
  - interpreting the corrections made by the decoder as pseudo errors.
7. (AMENDED) A method as claimed in claim 1, wherein using at the receiving end a demodulator provided with a first set of thresholds for making a decision on a received symbol and a second set of thresholds for making a decision on whether a pseudo error has occurred.
8. (AMENDED) A method as claimed in claim 1, wherein the further steps of
- monitoring the rate of actual errors at the receiving end, and
  - increasing the transmission power temporarily to the maximum transmission power when a predetermined error rate threshold is exceeded.
9. (AMENDED) A radio system including
- at a receiving end first means (SMa, SMb, 15a, 15b) for monitoring signal quality and for producing a control signal on the basis of the monitored signal quality, and
  - at a transmitting end second means (15a, 15b) for adjusting the transmission power in response to said control signal,

wherein

said first means being adapted to monitor the occurrence of pseudo errors and to produce a control signal indicating when the pseudo errors are detected and when the rate of the pseudo errors is below a predetermined threshold, whereby said second